

A LIFE'S WORK

A CATALOGUE OF MAPS
BOOKS, AND PAPERS

Drawn, compiled, or written, 1853-1908

By

E. G. RAVENSTEIN



PRINTED FOR PRIVATE CIRCULATION ONLY

2501381448



22501381448

21147

Pres
M^r. W
9/08

A LIFE'S WORK

A CATALOGUE OF MAPS
BOOKS, AND PAPERS

Drawn, compiled, or written, 1853-1908

By

E. G. RAVENSTEIN

F.R.G.S., F.S.S., F.M.C.S., F.R.A.I.

First Victoria Gold Medallist of the
Royal Geographical Society, 1902, Hon.
or Honorary Corresponding Member
of the Royal Scottish Geographical
Society and the Geographical Societies
of Amsterdam, Berlin, Frankfurt-on-
Main, and Lisbon



PRINTED FOR PRIVATE CIRCULATION ONLY

WELLCOME LIBRARY
General Collections
P
91

NOTE

This is by no means a complete list of my publications, but I have sought to make it representative, and this accounts for the inclusion of several ephemeral publications, and of others which are now obsolete or have been superseded.



Dedicated
TO
A BELOVED WIFE AND COMRADE
ON THE 50TH ANNIVERSARY
OF HER
WEDDING-DAY

September 7, 1908

CONTENTS

BOOKS AND PAPERS

	PAGE
GENERAL AND CHOROGRAPHIC	7
TRAVEL GUIDES	10
AFRICAN BOUNDARY TREATIES	11
GEOGRAPHICAL EDUCATION	11
HISTORY OF GEOGRAPHY	12
ACCOUNTS OF RECENT EXPLORATIONS	15
OBITUARIES	19
REVIEWS	20
STATISTICS OF POPULATION	20
CLIMATOLOGY	23
CARTOGRAPHY	26
PHYSICAL EDUCATION	29
MISCELLANEOUS	30

MAPS

	PAGE
ATLASES AND ATLAS MAPS	31
MAPS PUBLISHED INDEPENDENTLY :	
ENGLAND AND WALES	32
AFRICA	34
ASIA	36
AMERICA	37
SPECIAL MAPS	38
MAP ILLUSTRATIONS OF BOOKS AND AC- COUNTS OF TRAVEL	39

A LIFE'S WORK

BOOKS AND PAPERS.

GENERAL AND CHOROGRAPHIC.

THE FIELD OF GEOGRAPHY (*Scottish Geogr. Mag.* 1886, p. 425).

A lecture delivered on June 14, 1886, in connection with an exhibition of geographical appliances at the Museum of Science and Art: Prof. Geikie in the chair.

*THE FIELD OF GEOGRAPHY. By E. G. Ravenstein, President of Section E of the British Association, Cardiff, 1890 (*Report of the Brit. Ass.* 1890; *Proc. R. Geogr. Soc.* xiii. 1890, pp. 617-29; *Journal of the Manchester Geogr. Soc.*, &c.).

*RIVERS, PLAINS, AND MOUNTAINS. By E. G. Ravenstein (*Scottish Geogr. Mag.* Jan. 1891).

Anniversary address delivered at Edinburgh, Nov. 28, 1890, Sir John Murray in the chair; deals with the influence of physical features upon the destinies of man and of nations.

REMARKS ON THE LIMITS BETWEEN
GEOLOGY AND PHYSICAL GEO-
GRAPHY (*Geogr. Journal*, ii. 1893, pp.
527-8).

A discussion at a joint meeting of Sections C and E of the British Association, Nottingham, 1893.

REMARKS ON A. J. HERBERTSON'S
"THE MAJOR NATURAL REGIONS"
(*Geogr. Journal*, xxv. 1905, p. 311).

Approves of the term "Region" being defined by physical features; objects to "Regional Geography" as a synonym for Chorography or Länderkunde.

*THE UNIVERSAL GEOGRAPHY. By
Elisée Reclus; (translated and) edited by
E. G. Ravenstein, vols. i.-v. London
(Virtue & Co.), 1876-9.

The following maps, printed in colours (in addition to several small maps in the text) were added by me, viz. :

- (1) Ethnogr. map of Europe, 1 : 20,000,000 ;
- (2) Turkey in Europe and Greece, 1 : 5,000,000 ;
- (3) Ethnogr. map of Turkey, 1 : 4,000,000 ;
- (4) Spain and Portugal, 1 : 4,000,000 ; (5) France, Geological, 1 : 5,000,000 ; (6) France, Political ;
- (7) Central Europe, 1 : 7,160,000 ; (8) British Isles, Geological, 1 : 4,000,000 ; (9) British Isles, Political ; 1 : 4,000,000 ; (10) Scandinavia, 1 : 9,500,000.

The account of the British Isles was expanded at the expense of other European countries.

*THE BRITISH EMPIRE AS A GEO-
GRAPHICAL AND COMMERCIAL
UNIT (*Whitaker's Almanack*, 1896, pp.
586-90).

With maps of the world : illustrating the shipping, imports and exports of the empire.

- *MEYER'S CONVERSATIONS-LEXIKON,
3rd edition, 1872-7 ; 4th edition, 1885-90.

I am responsible for the articles on the British Isles and America. As also for a map of Central Africa, 1 : 12,000,000.

- *GEOGRAPHIE UND STATISTIK DES
BRITISCHEN REICHS. Leipzig (Hin-
richs), 1863, pp. 191.

A reprint from the 7th edition of Stein and Hörschelmann's *Handbuch der Geographie und Statistik*.

- *CYPRUS : its Resources and Capabilities, with
Hints for Tourists. London (Philip & Son),
1876, pp. 56.

Map of Cyprus, 1 : 567,000, with small maps illustrating orography, geology, agriculture, and religions of the island ; and plans of four towns.

- FORMOSA (*Geogr. Mag.* i. 1874, pp. 292-7).

Map of the island, 1 : 2,000,000.

- SOKOTRA (*Geogr. Mag.* iii. 1876, pp. 119-24).

Map of Sokotra according to S. B. Haines and T. R. Wellsted, 1 : 300,000.

- THE VITI OR FIJI ISLANDS (*Geogr. Mag.*
i. 1874, pp. 57-63).

Map of the Viti or Fiji Islands from surveys and explorations by Com. Wilkes, Capt. H. N. Denham, Col. W. S. Smythe, B. Seemann, A. Graaffe, and others ; 1 : 1,200,000.

- *THE RUSSIANS ON THE AMUR : its Dis-
covery, Conquest, and Colonisation, &c.
London (Trübner), 1861, pp. 488, maps and
illustrations.

Part I.—HISTORICAL. Early History, p. 1 ;
Russian expeditions, 1643-87, p. 9 ; The Treaty

of Nerchinsk, 1689, p. 54; The Amur, 1689—1848, p. 65; The Russian Mission at Peking, p. 71; The Amur under the Dominion of China, p. 73; The Romish Missionaries in Manchuria, p. 73; Recent History, 1847-61, p. 113.

Part II.—GEOGRAPHICAL DESCRIPTION, p. 161; Climate, p. 275; Mineral Productions, p. 285; Plants, p. 288; Animals, p. 315; Native Inhabitants, p. 388; Commercial Resources, p. 400.

APPENDIX.—Recent Explorations, &c., p. 431 (*Pet. Mitt.* 1862, p. 115; *Ath.* 1861, Nov. 18; *London and China Telegraph*, 1861, Sept. 16 and Nov. 14).

THE RUSSIANS ON THE AMUR (*Bentley's Miscellany*, June 1857, pp. 551-63).

SITKA AND THE RUSSIAN TERRITORIES IN AMERICA (*Bentley's Miscellany*, 1857, pp. 1-11).

TRAVEL GUIDES.

*REISEHANDBUCH FÜR LONDON, ENGLAND, UND SCHOTTLAND. Von E. G. Ravenstein. Hildburghausen (Bibliogr. Institut), 1870; 2nd edition, 1871; 3rd edition (Leipzig), 1876, pp. 929, 11 maps, 45 plans, 37 views.

(*Pet. Mitt.* 1869; 1870, p. 40.)

LONDON AND THE BRITISH ISLES: an Itinerary Guide for Tourists. London (Thomson Bros.), 1876, pp. 172, 38 maps and plans.

FOUR MONTHS IN THE UNITED STATES AND CANADA: an Itinerary Guide for Tourists. London (Thomson Bros.), 1876, pp. 47, 18 maps and plans.

AFRICAN BOUNDARY TREATIES.

- *THE AGREEMENT BETWEEN GREAT BRITAIN AND THE CONGO STATE (*Chamber of Commerce Journal*, London, June 1894, pp. 45-7).

An unfavourable criticism of the treaty of May 12, 1894, with a map showing the boundaries.

- THE BENUE AND THE ANGLO-GERMAN TREATY OF NOVEMBER 15, 1893 (*Geogr. Journal*, iii. 1894, pp. 42-4, with a sketch map).

- THE RECENT TERRITORIAL ARRANGEMENTS IN AFRICA (*Geogr. Journal*, iv. 1894, pp. 54-8).

On the treaties with Italy (Somaliland) and the Congo State, 1894, with sketch maps showing new boundaries.

GEOGRAPHICAL EDUCATION.

- OBJECT LESSONS IN GEOGRAPHY (*Proc. R. Geogr. Soc.* vi. 1884, pp. 674-5).

Read at Montreal Meeting of Brit. Ass.

- *THE AIMS AND METHODS OF GEOGRAPHICAL EDUCATION. By E. G. Ravenstein (*Report of the Proceedings of the [Royal Geographical] Society in reference to the improvement of Geographical Education*, London, 1886, pp. 163-81).

A lecture delivered on Dec. 15, 1885, Lord Aberdare in the chair. The Rev. Canon Butler, Rev. H. B. George, Mr. H. W. Eve, Mr. Langler, and Mr. Francis Galton joined in the discussion.

H. A. Arnold-Forster's *This world of ours: an introduction to the study of Geography* was suggested by this paper, as also Mark Twain's *Geography as she is taught*.

HISTORY OF GEOGRAPHY.

THE CONGO AND THE CAPE OF GOOD HOPE, 1482-8 (*Report of 67th Meeting of Brit. Ass. Toronto, 1897*).

REMARKS ON H. YULE OLDHAM'S "A PRE-COLUMBIAN DISCOVERY OF AMERICA" (*Geogr. Journal*, v. 1895, pp. 333-4).

Denies that the "ixola otinticha" of A. Bianco's chart of 1448 refers to a discovery of Brazil. Sir Clements Markham (*ib.* p. 239) suggests plausibly that these "authentic islands" were the Azores.

*THE VOYAGES OF DIOGO CAO AND BARTHOLOMEU DIAS, 1482-8 (*Geogr. Journal*, xvi. 1900, pp. 625-55).

The first voyage of Diogo Cão, 1482-4; the second voyage, 1485-6; the voyage of B. Dias, 1487-8; on the maps illustrating these voyages; list of place names.

Eight maps and six woodcuts; map illustrating the voyages (showing visibility of coast); maps by Soligo, 1485; Henricus Martellus Germanus, 1489; Behaim, 1492; the author of Dr. Hamy's chart, 1502; the author of Cantino's chart, 1502; Nicolas de Canerio, 1502; and Pedro Reinell, 1520.

(*Geogr. Jahrbuch*, xxvi. 1903, p. 186.)

*A JOURNAL OF THE FIRST VOYAGE OF VASCO DA GAMA, 1497-9. Translated and edited with notes, an introduction, and appendices. London (Hakluyt Society), 1898, pp. 286, maps and illustrations.

Six portraits of Vasco da Gama, portrait of King Manuel; the ships of the Armada, eight other illustrations, &c.

Four charts illustrating the voyage. Facsimiles

of the charts of Dr. Hamy, Cantino, Canerio, and the "Mohit."

Introduction, pp. i-xxxvi.

A journal of the voyage of Vasco da Gama, by one of his companions, p. 1.

Appendices:—

Two letters of King Manuel, 1499, p. 101. Girolamo Sernigi's letters, 1499, p. 119. Three Portuguese accounts of the voyage, p. 145. Vasco da Gama's ships and their equipment, p. 157. Muster-roll of Vasco da Gama's fleet, p. 173. The voyage, p. 185. Early maps illustrating the voyage, p. 203. Honours and rewards bestowed upon Vasco da Gama, p. 226.

(*Pet. Mitt.* 1899, No. 611; *Times*, May 13, 1898; *Ath.* May 21, 1898.)

*THE STRANGE ADVENTURES OF ANDREW BATTELL OF LEIGH. Edited with notes, &c. London (Hakluyt Society), 1901, pp. 230.

Maps, Kongo and Angola, 1 : 3,000,000; Angola, 1 : 1,000,000.

Introduction and Bibliography, pp. i-xx.

The Strange Adventures of Andrew Battell (from "Purchas his Pilgrimes," p. 1).

On the Religion and the Customs of the Peoples of Angola, Congo, and Loango (from the same), p. 71.

Antony Knivet in Kongo and Angola, p. 89.

A sketch of the history of Kongo to the end of the 17th century, p. 102.

A list of the Kings of Kongo, p. 136.

A sketch of the history of Angola, p. 139.

Index and Glossary, p. 191.

(*Ath.* June 5, 1902; *Geogr. Jahrbuch*, xxvi. p. 187.)

*MARTIN DE BOHEMIA. Lisboa (Ferin), 1900; size, 6 × 9½ in., pp. 68.

Reprinted from the *Revista Portugeza Colonial e Maritima*. Now superseded.

(*Geogr. Jahrbuch*, xxiii. 1900, p. 181; xxvi. 1903, p. 185.)

MARTIN BEHAIM OF NÜRNBERG, 1459-1507 (*Report of 71st Meeting, Brit. Ass. Glasgow, 1901* ; *Geogr. Journal*, xx. 1902, p. 250).

*MARTIN BEHAIM, HIS LIFE AND HIS GLOBE. London (Philip), 1908.

With a facsimile of the globe on the scale of the original, &c., and numerous other illustrations. In the Press.

A CONCISE ACCOUNT OF GEOGRAPHICAL RESEARCHES IN EASTERN AFRICA up to the discovery of the Uyenysii by Dr. Livingstone in J. L. Krapf's "Travels, Researches, and Missionary Labours," London (Trübner), 1860.

REMARKS ON O. NEUMANN'S PAPER ON SOUTHERN ETHIOPIA (*Geogr. Journal*, xx. 1902, pp. 399-400).

On our knowledge of Southern Abyssinia since the time of Fra Mauro.

WALDSEEMÜLLER'S GLOBE: a Letter (*Geogr. Journal*, xx. 1902, p. 462).

Identical with his map of 1507 ; remarks on the Behaim and Laon globes.

DIE WALDSEEMÜLLERSCHEN KARTEN (*Geogr. Zeitschrift*, xii. Heft 3. Leipzig (Teubner), 1906).

The corrections and red lines are due to Schöner, as pointed out by me, *Athenæum*, March 26, 1904.

THE LAKE REGION OF CENTRAL AFRICA: a contribution to the history of African cartography (*Scottish Geogr. Mag.* June 1891).

Read at Glasgow, Nov. 21, 1890. Illustrated by reduced facsimile of the maps of Ptolemy (whose knowledge of these lakes is denied), Edrisi, Fra Mauro, Behaim, Hylaconilus, and Gastaldo.

FRAGMENT OF A MANUSCRIPT MAP OF THE WORLD ON THE EQUIDISTANT POLAR PROJECTION (*Supplement to the eight list books on exhibition by W. M. Voynich*, London, 1902).

It is not the earliest map on this projection, as supposed by me, for Mr. Heawood has discovered it on a map of 1510.

A full summary, *Times*, July 19, 1902.

ACCOUNTS OF RECENT EXPLORATIONS.

DR. G. NACHTIGAL'S EXPLORATIONS IN AFRICA, 1869-74 (*Report of the 4th Meeting of the British Ass.*, held at Belfast in August 1874, Transactions of Sections, p. 175; *Geogr. Mag.* i. 1874, pp. 277-82, ii. 1875, p. 178).

With a map illustrating Dr. Nachtigal's Travels, 1869-74; scale 1 : 5,000,000 (*Geogr. Mag.* ii. 1875).

THE WESTERN SAHARA (*Geogr. Mag.* iii. 1876, pp. 13-16).

With a map of the Western Sahara, 1 : 5,000,000. (*Pet. Mitt.* 1876, p. 118.)

STANLEY'S EXPLORATION OF THE
VICTORIA NYANZA (*Geogr. Mag.* ii.
1876, pp. 369-73).

With two maps, viz. : (1) Map of the Victoria Nyanza, scale 1 : 2,000,000; (2) Map of Regions of the Upper Nile, scale 1 : 4,000,000.

(*Pet. Mitt.* 1876, p. 118.)

LIEUT. WISSMANN'S JOURNEY ACROSS
AFRICA (*Proc. R. Geogr. Soc.* v. 1883,
pp. 163-5).

With a map of C. Pogge and Wissmann's route from the Kasai to Nyangwe, 1881-2; 1 : 2,000,000.

MR. THOS. WAKEFIELD'S FOURTH
JOURNEY TO THE SOUTHERN
GALLA COUNTRY in 1877 (*Proc. R.
Geogr. Soc.* iv. 1882, pp. 368-72).

An account prepared from Mr. Wakefield's Journal, with a map of the Lakes Sigisso, 1 : 129,000, by E. G. Ravenstein.

*SOMAL AND GALLA LAND ; embodying
information collected by the Rev. Thomas
Wakefield (*Proc. R. Geogr. Soc.* vi. 1884,
pp. 255-73).

Read at the Southport Meeting of the British Association, 1883. The geographical information collected by Mr. Wakefield has been embodied in my map of Eastern Equatorial Africa, sheets 3-6, 9-11. Mr. Wakefield's information is preceded by a history of the exploration of Somal and Galla Land. A map of the Upper Wēbi Shabēla by an Ogadin Somali is given on p. 7.

(*Pet. Mitt.* 1884, p. 273.)

REMARKS ON THE TRAVELS OF MR.
F. L. JAMES THROUGH THE
SOMALI COUNTRY AND THOSE OF
HIS PREDECESSORS (*Proc. R. Geogr.
Soc.* vii. 1885, pp. 642-3).

BASEL MISSIONARIES' TRAVELS IN
THE VOLTA BASIN (GOLD COAST),
1 : 5,000,000 (*Proc. R. Geogr. Soc.* viii.
1886, p. 246).

*SILVA PORTO'S JOURNEY FROM BIHE
TO THE BAKUBA COUNTRY (*Proc.*
R. Geogr. Soc. ix. 1888, pp. 753-6).

Annotated abstract of his diary, &c., with a
map showing his routes, 1 : 2,000,000, by E. G.
Ravenstein.

(*Pet. Mitt.* 1888, p. 29.)

*DR. LIVINGSTONE AND LAKE BA-
NGWEOLO (*Scottish Geogr. Mag.*
March 1889, p. 12).

A paper read at the Bath Meeting of the Brit.
Ass. 1888. It is illustrated by a facsimile of
Livingstone's map of the lake and its vicinity, and
also by a map from the latest authorities,
1 : 1,000,000.

(*Pet. Mitt.* 1889.)

THE ALTITUDE OF THE VICTORIA
NYANZA (*Proc. R. Geogr. Soc.* xi. 1889,
p. 438).

Result of comp. of barometrical observations :
Mackay, 3,800 ft. ; J. Thomson, 3,870 ft. ; on my
map of E. Eq. A., 3,880 ft.

GEOGRAPHICAL CO-ORDINATES IN
THE VALLEY OF THE UPPER NILE
(*Proc. R. Geogr. Soc.* xi. 1889, pp. 641-6).

A discussion of the astron. observations made
by Petherick, Baker, Speke, Watson, Chippendall,
Mason, Prout, Bizemont, and others, with a sketch
of the environs of Gondokoro by C. W. Watson,
1 : 380,000.

*MR. J. R. PIGOTT'S JOURNEY TO THE
UPPER TANA, 1889 (*Proc. R. Geogr.
Soc.* xii. 1890, pp. 129-36).

The paper was read by E. G. Ravenstein, who also supplied a map (1 : 2,000,000), offered remarks on the work done by previous explorers and refuted the charge of Dr. Peters that in compiling his map of Eastern Africa, published in 1882, he had shown a "reckless want of care." (See H. Wichmann's remarks, *Pet. Mitt.* 1890, p. 30.) (*Pet. Mitt.* 1890, p. 111.)

MESSRS. JACKSON AND GEDGE'S
JOURNEY TO UGANDA VIA MASAI-
LAND (*Proc. R. Geogr. Soc.* xiii. 1891,
pp. 193-208).

An account prepared from the reports of these explorers, with a map by E. Gedge, adapted to the results of preceding explorers by E. G. Ravenstein (1 : 1,000,000), and a plan of the environs of Machakos by Latrobe Bateman.

RECENT EXPLORATIONS IN THE
SOUTH-EASTERN CONGO BASIN
(*Geogr. Journal*, i. 1893, pp. 223-8).

Deals with the expeditions of Paul le Marinel, Delcommune, Captain Stairs, and Captain Bia, illustrated by a map of part of the territory of the Katanga Company, 1 : 3,000,000.

ITALIAN EXPLORATIONS IN THE
UPPER BASIN OF THE JUB (*Geogr.
Journal*, iii. 1894, pp. 134-8).

On the explorations of Capt. V. Bóttego and Prince E. Ruspoli, with a sketch map, 1 : 5,000,000.

SIR WILLIAM GARSTIN'S REPORT AS
TO IRRIGATION PROJECTS ON
THE UPPER NILE (*Geogr. Journal*,
xviii. pp. 398-403).

A review, with a map of the Bahr el Gebel, 1 : 1,000,000.

DIE CANADISCHE RED RIVER EXPE-
DITION IN DEN JAHREN 1857-9
(*Zeitschrift für Allgem. Erdkunde*, viii.
1860, pp. 233-40).

An abstract based upon British and Canadian
Parliamentary Papers, summarising the exploration
conducted by G. Gladman, W. H. E. Napier,
S. J. Dawson, H. Yule Hind, and others. Map,
1 : 3,000,000.

THE ARCTIC EXPEDITION (*Popular
Science Review*, 1877, pp. 64-73). Small
map.

The voyage of the *Alert* and *Discovery*, Capt.
Nares, 1875-6.

OBITUARIES.

SIR SAMUEL WHITE BAKER (*Geogr.
Journal*, iii. 1894, pp. 152-6 ; portrait).

CAPT. VERNEY LOVETT CAMERON
(*ib.* iii. 1894, pp. 429-31).

JOSEPH THOMSON (*ib.* vi. 1895, pp. 289-
91 ; portrait).

GERHARD ROHLFS (*ib.* viii. 1896, pp. 184-5).

ANTOINE D'ABBADIE (*ib.* ix. 1897, pp. 569-
70).

PAUL BELLONI DU CHAILLU (*ib.* xxi.
1903, pp. 680-1 ; portrait).

SOPHUS RUGE (*ib.* xxiii. 1904, p. 386).

H. M. STANLEY (*ib.* xxiv. 1904, pp. 103-7 ;
portrait).

FRIEDRICH RATZEL (*ib.* xxiv. 1904, pp. 485-7).

PIERRE SAVORGNA DE BRAZZA (*ib.* xxvi. 1905, pp. 566-8).

FERDINAND VON RICHTHOFEN (*ib.* xxvi. 1905, pp. 679-82 ; portrait).

HERMANN VON WISSMANN (*ib.* 1905, pp. 227-30).

REVIEWS.

OCEAN HIGHWAYS AND GEOGRAPHICAL MAGAZINES, 1872-7: *Cartography*.

ATHENÆUM, 1875-1908.

First review, April 17, 1875, when I denounced Capt. J. A. Lawson's *Wanderings in the Interior of New Guinea* as a work of fiction, which other reviewers (and his publishers) accepted as a genuine narrative of exploration

STATISTICS OF POPULATION.

CENSUS OF THE BRITISH ISLES, 1871.
Birthplaces and Migrations (*Geogr. Mag.* iii. 1876, pp. 173-7, 201-6, 229-33).

*THE CELTIC LANGUAGES IN THE BRITISH ISLES: a Statistical Survey (*Journal of Statistical Soc.* Sept. 1899). Pp. 65, 3 maps.

Read April 1879. The paper is based upon replies to more than a thousand circulars sent to

STATISTICS OF POPULATION 21

local residents. The maps exhibit the extent to which Celtic languages are spoken in Ireland (in 1851 and 1871), Wales, and Scotland.

(*Pet. Mitt.* 1879, p. 462.)

*DENOMINATIONAL STATISTICS OF ENGLAND AND WALES. London (Stanford), 1870, pp. 32.

(*Pet. Mitt.* 1871, p. 396.)

STATISTICS OF ROMAN CATHOLICISM IN GREAT BRITAIN (*Geogr. Mag.* v. 1874, pp. 102-6).

With a map of Great Britain showing the Distributions of Roman Catholics and of Roman Catholic Chapels, Convents, and Monasteries, by E. G. Ravenstein; scale 1 : 2,500,000.

*A STATISTIC VIEW OF THE POPULATION, RELIGIONS, AND LANGUAGES OF EUROPE, TRANS-CASIA, AND TURKEY IN ASIA IN 1855. London (Stanford), 1855, 4to, pp. 16.

Three maps of Europe: (1) Density of Population; (2) Nationalities; (3) Religions.

This little work is dedicated to the Archduke Stephen of Austria.

DISTRIBUTION OF THE POPULATION IN THE PARTS OF EUROPE OVER-RUN BY TURKS (*Geogr. Mag.* iii. 1876, pp. 259-61).

With four maps of Turkey in Europe, showing (1) Political divisions; (2) Distribution of Muhammadans; (3) Nationalities; (4) Density of population.

THE POPULATIONS OF RUSSIA AND
TURKEY (*Journal of Statistical Soc.* 1877,
pp. 434-67).

Read June 1877. An estimate of the population according to nationality and religion, its density, movement, &c.

THE BIRTHPLACES OF THE PEOPLE
AND THE LAWS OF MIGRATION.
Reprinted from the *Geogr. Mag.* London
(Trübner), 1876, pp. 56.

Six maps of the British Isles illustrate the local element of the population of counties and towns; the local element of the population of entire counties; the Irish element; migration; increase or decrease of the entire population, 1861-71; the same of natives of each county only.

*THE LAWS OF MIGRATION (*Journal of
Statistical Soc.* June 1885). Pp. 70, 12
maps.

Read March 17, 1885. The paper deals with the British Isles exclusively. The maps of the British Isles illustrate (1) The national element; (2) The native-county element; (3) The Irish element in Great Britain; (4) The Scotch element in England, the English element in Scotland, the Anglo-Scotch element in Ireland; (5) Currents of migration; (6) Absorption and dispersion; (7) Migration; (8) Dispersion of migrants; (9) Migration into London, Glasgow, and Dublin; (10) Increase or decrease of the population of counties, 1871-81; (11) The same of the natives of each county; (12) Proportion of females to males.

(*Pet. Mitt.* 1885, No. 420.)

*THE LAWS OF MIGRATION, Second
Paper (*Journal of Statistical Soc.* June
1889). Pp. 65, 6 maps.

Read April 16, 1889. The paper deals with

Europe, the United States, and Canada. The maps illustrate (1) The foreign elements in Western Europe; (2) Regions of dispersion and absorption in Western Europe; (3) The foreign elements in Canada and the United States; (4) Regions of dispersion and absorption in Canada and the United States; (5) Dispersion of migrants from Virginia and Quebec; (6) Absorption of migrants by Iowa, Manitoba, and Kentucky.

(*Pet. Mitt.* 1890, No. 1579.)

*LANDS OF THE GLOBE STILL AVAILABLE FOR EUROPEAN SETTLEMENT (*Proc. R. Geogr. Soc.* 1891, pp. 27-35, 114).

Read at a joint meeting of Sections C and E of the British Ass. Leeds, 1890. Population of the world in 1890; extent of fertile regions, steppes, and deserts; the standard of life; acclimatisation of Europeans within the tropics; increase of population at present 8 per cent. in a decade; the total possible population may be reached, under existing conditions, in the year 2072. Two maps of the world (vegetation, centres of population) illustrate the paper.

(*Pet. Mitt.* 1891, No. 2188.)

COLONISATION AND ITS LIMITATIONS (*Journal of Society of Arts*, xxxix. 1891, pp. 269-75).

A paper read Feb. 25, 1891, Sir Rawson Rawson in the chair.

CLIMATOLOGY.

*REPORTS OF A COMMITTEE APPOINTED BY THE BRITISH ASSOCIATION TO INQUIRE INTO THE CLIMATOLOGY OF AFRICA.

The Committee was appointed at Cardiff in 1891, and consisted originally of E. G. Ravenstein

(Chairman), Baldwin Latham, and G. J. Symons (Secretary). Dr. H. R. Mill acted as Secretary for 1893-5, and Mr. H. W. Dickson for 1896-1901, when the tenth and final report was drawn up.

The reports were drawn up by the Chairman, who is responsible likewise for the "Hints" and the summaries of the observations published. These observations deal with 71 stations; 11 stations whose record extends to at least five years, 45 with records for a full year, and 15 others.

The Committee, in its Tenth Report, also published observations on the fluctuations of the lake level of the Victoria Nyanza.

(*Pet. Mitt.*, sub "Lokalklim. Beiträge," 1895-1905.)

HINTS TO METEOROLOGICAL OBSERVERS IN TROPICAL AFRICA: with instructions for taking observations. London, 1892.

These "Hints" were reprinted in the same year, and "published by authority of the Meteorological Council," and also in the *Hints to Travellers* published by the Royal Geographical Society.

The hours recommended to observers are 7 a.m., 2 and 9 p.m. This recommendation, unfortunately, is but rarely attended to, and as a result the observations made do not furnish, in many instances, even approximately correct means. This applies more especially to observations of humidity.

*REPORT ON METEOROLOGICAL OBSERVATIONS IN BRITISH EAST AFRICA FOR 1893. London (Philip & Son), 1894, pp. 12.

This report is published by authority of the Directors of the Imperial British East Africa Company, and summarises all observations made since 1891.

*CLIMATOLOGICAL OBSERVATIONS
AT COLONIAL AND FOREIGN
STATIONS: 1. Tropical Africa, 1900-
1901-1902, with summaries for previous
years and frontispiece map. Tables pre-
pared by E. G. Ravenstein. London
(Meteorol. Council), 1904, pp. 54.

This return contains tables for 83 stations in the Sudan, Uganda, the Congo State, British East Africa, the Shire Highlands and Nyasaland, Rhodesia or Zambezia. Summaries for Lustra (1896-1900) are given for Kisimayu, Takaungu, Mombasa, Shimoni, Machako's, Lauderdale, and Mopea (1891-1900).

*THE GEOGRAPHICAL DISTRIBUTION
OF RELATIVE HUMIDITY (*Report of
Brit. Ass.*, 1900; *Scottish Geogr. Mag.*
1900, pp. 581-2).

Abstract of a paper read at the Bradford Meeting of the British Association, illustrated by charts of the world showing mean annual humidity, the annual range of humidity, 16 hygrothermal regions, and by a number of diagrams.

For a small map of the world illustrating Relative Humidity, see *Systematic Atlas*, 1894, plate 5.

I am at present engaged upon a paper dealing fully with this subject.

HOW TO LIVE IN TROPICAL AFRICA.

By J. Murray, M.D. London (Philip & Son), 1895.

He publishes maps and climatological memoranda by E. G. Ravenstein. The maps exhibit the height of the land, mean temperature, annual range of temperature and rainfall.

TROPICAL AFRICA IN RELATION TO THE ACCLIMATION OF EURO- PEANS.

Remarks made at the International Geographical Congress, London, 1895 (*Report*, p. 547).

*THE LAKE LEVEL OF THE VICTORIA NYANZA (*Geogr. Journal*, xviii. 1901, pp. 403-6).

Summary of observations, 1896-1900, with two diagrams illustrating fluctuations in the lake level at Ntebe compared with the rainfall.

(*An. de Geogr.* 1902.)

CARTOGRAPHY.

MAPS AND MAP-READING (H. R. Mill's *The International Geography*, London, 1899, pp. 26-38).

*ON BATHY-HYPSOGRAPHICAL MAPS : with special reference to a combination of the Ordnance and Admiralty Surveys (*Proc. R. Geogr. Soc.* viii. 1886, pp. 21-7).

Read at the Aberdeen Meeting of the
Brit. Ass., 1885.

Maps: (1) Part of the English Channel, with contours referred to low water; (2) The same, contours referred to the datum level of the Ordnance Survey; (3) British Isles, spring rise of the tides (reprint in Berghaus' *Phys. Atlas*); (4) The same, mean sea level referred to M.L. at Liverpool.
(*Pet. Mitt.* 1886, No. 209.)

*REPORTS OF A COMMITTEE AP- POINTED FOR THE PURPOSE OF TAKING INTO CONSIDERATION THE COMBINATION OF THE ORD-

NANCE AND ADMIRALTY SURVEYS, AND THE PRODUCTION OF A BATHY-HYPSOGRAPHICAL MAP OF THE BRITISH ISLES.

The Committee was appointed at Aberdeen, after the reading of my paper. Among its members were General J. T. Walker, Sir W. Thomson (Lord Kelvin), E. G. Buchan, &c. It presented Reports at Birmingham, 1886, and Manchester, 1887.

The Committee recommended that the contours, as well as the fathom lines, should be referred to the datum level of the Ordnance Survey, a recommendation acted upon by Sir Charles Wilson. It also proposed the publication of a general map on a scale of 1 : 200,000, the intervals between the contours to be tinted. Mr. E. G. Ravenstein prepared maps (*a*) of the country around Chatham, and (*b*) of the environs of Ben Nevis, and these maps were tinted in nine different modes, and then placed in the map room of the R. Geogr. Soc. But they were not published, owing to the expense, and seem to have gone astray. In one of the sets the colours of the prism have been employed in regular succession: brown, red, orange, yellow, and green for the land; blue, indigo, grey for the sea bottom.

This physical map was to be supplemented by a political map on the same scale.

*FOREIGN AND COLONIAL SURVEYS (*Report of 70th Meeting of Brit. Ass.* Bradford, 1890).

As a result, a Committee was appointed to draw up a scheme for the Survey of British Protectorates (Sir T. H. Holdich, Chairman), which presented its Report at Glasgow in 1901 (see Col. Holdich, "How are we to get Maps of Africa?" *Proc. R. Geogr. Soc.* xviii. 1901, p. 590, with a map of Africa by E. G. Ravenstein (1 : 40,000,000) showing territories surveyed, chains of triangles, &c.).

TOPOGRAPHICAL SURVEY OF AFRICA
(*Verh. des 7ten Internationalen Geographen-Kongressen*, Berlin, 1899, ii. pp. 744).

A report on the state of surveys signed by Colonel W. Everett, R.E., and E. G. Ravenstein, with a map of Africa (1 : 40,000,000) by the latter, showing territories, coasts, and rivers surveyed, telegraph lines, &c.

A PROPOSED INTERNATIONAL MAP
OF THE WORLD (*Proc. R. Geogr. Soc.*
xiv. 1892, pp. 216-7).

A paper read at the Edinburgh Meeting of the British Association. It deals sympathetically with Prof. Penck's proposal for such a map.

REMARKS ON MAJOR CLOSE'S "IDEAL
TOPOGR. MAP" (*Geogr. Journal*, xxvi.
1905, pp. 222-3).

Remarks on spherical maps, with reference to a paper by Elisée Reclus (*Geogr. Journal*, xxii. 1903, pp. 295-6).

REMARKS ON DR. H. ROBERT MILL'S
PROPOSED GEOGRAPHICAL DE-
SCRIPTION OF THE BRITISH ISLES
BASED ON THE ORDNANCE SUR-
VEY (*Geogr. Journal*, vii. 1896, pp. 359-60).

Suggests that such a description should be based upon the county boundaries, and not upon the arbitrary boundaries of separate sheets of the Ordnance Survey, as proposed by Dr. Mill.

SIXTH INTERNATIONAL GEOGRA-
PHICAL CONGRESS, London, 1895 :
Catalogue of the Exhibition, pp. 190.

I acted as General Secretary of the Exhibition Committee. Numerous misprints in the historical section are due to the haste with which that part of the Exhibition had to be arranged.

PHYSICAL EDUCATION.

- *A HANDBOOK OF GYMNASTICS AND ATHLETICS. By E. G. Ravenstein, President of the German Gymnastic Society of London, and John Hulley, Gymnasiarch of Liverpool. London (Trübner), 1867.

This work is largely based upon my father's "Volksturnbuch." Hulley returned my MS. without having made one single suggestion or alteration.

I. *Introduction.* Historical sketch, conduct of the exercises. Athletic competitions, hygiene, &c.

II. A systematic description of gymnastic exercises, free exercises, tacto-gymnastic exercises, leaping, vaulting, horizontal and parallel bars, trapeze, swings, ladders, climbing, balancing, dumb-bells, clubs, bar-bells, wands, weights, throwing, javelins, shooting, boating, wrestling and boxing, games.

III. A synopsis of gymnastic exercises for the guidance of squad-leaders.

THE GYMNASIUM AND ITS FITTINGS.

By E. G. Ravenstein and John Hulley. London (Trübner), 1867.

pp. 32, with 14 plates of working drawings for the manufacture of apparatus and the arrangement of gymnasia.

TWO LECTURES "ON PHYSICAL EDUCATION" (history, theory, and practice) delivered, on the invitation of the North Durham Cricket Club, at the Mechanics' Institute of Gateshead, on Feb. 5 and 7 1867.

For full reports see *Newcastle Daily Chronicle*, Feb. 6-9.

*ON A NATIONAL SYSTEM OF PHYSICAL EDUCATION. A paper read before the College of Preceptors, Dec. 9, 1868, by E. G. Ravenstein. London (reprinted from the *Educational Times*), 1869.

*ON PHYSICAL EDUCATION, WITH SPECIAL REFERENCE TO OUR ELEMENTARY SCHOOLS. A Prize Essay by E. G. Ravenstein. London (Trübner), 1874. Size, 5 × 7 in., pp. 20.

It was awarded the first prize by the National Olympic Association (motto: *Civium vires civitatis vis*), founded in 1865, at Liverpool; Dr. W. P. Brookes, of Much Wenlock, being virtually its founder. It held four athletic meetings at London, Birmingham, Wellington, and Much Wenlock, but went to sleep after 1874.

MISCELLANEOUS.

THE DETERMINATION OF LONGITUDES AND PHOTOGRAPHY (*Geogr. Journal*, ii. 1893, pp. 557-8).

An ordinary theodolite is preferable to a sextant on land; the photogrammeter might prove useful in taking lunars, but other methods seem to be preferable.

A PLEA FOR THE METER. By E. G. Ravenstein (*Report of the 57th Meeting of the British Association*, held in Manchester in 1887; and *Proc. R. Geogr. Soc.* ix. 1888, pp. 705-7).

*ENGLISCHER SPRACHFÜHRER FÜR REISENDE. Leipzig (Meyer), 1881, pp. 500.

MAPS.

ATLASES AND ATLAS MAPS.

- *PHILIP'S SYSTEMATIC ATLAS, PHYSICAL AND POLITICAL : specially designed for the use of Higher Schools and Private Students. London (G. Philip & Son), 1894.

Introduction, pp. 6 (On the projections employed ; notes on the physical maps).

52 Plates, 11 × 15 in. each, containing 250 maps, insets, and diagrams, viz. : 1, Astronomical Geography ; 2-8, Physical Geography ; 9, Highways and Commerce ; 10, The Atlantic ; 11-34, Europe ; 35-40, Asia ; 41-43, Africa ; 44-46, Australasia ; 47-52, America.

(*Pet. Mitt.*, 1895, Lit. 327, 1896, Lit. 308 ; *Ath.* 1894, Aug. 18.)

- *PHILIP'S HANDY-VOLUME ATLAS OF THE WORLD. Seventh edition. London (G. Philip & Son), 1907. The first edition was published in 1895.

72 Plates, 6 × 7½ in. each, with geographical and statistical notes printed on the back of each map, and an index (*Ath.* Nov. 28, 1895 ; *School Board Chronicle*, Jan. 5, 1901).

- *PHILIP'S MERCANTILE MARINE ATLAS. London (G. Philip & Son), 1904.

The following seven maps were compiled by me, viz. :

IV. Ocean Currents in July (two hemispheres).

Insets: Currents around the North Pole, Monsoon drift in February, Salinity of the Sea, Co-tidal lines (1:45,000,000).

V. Two charts (Mercator's Projection) illustrating winds and tracks of sailing vessels (1:57,000,000).

VII. The Atlantic Ocean, showing depth of the sea and the height of the land (1:40,000,000). Insets: The West Indies, showing the visibility of the land; Spring Rise of the Tides in North America; sections.

VIII. The North Sea and the Baltic, do. (1:7,000,000). Insets: Spring Rise of the Tides around the British Isles and the visibility of the land.

IX. The Mediterranean and Black Sea, do. (1:11,000,000). Insets: The visibility of the land; a section.

X. The Indian Ocean, do. (1:40,000,000). Insets: The Malay Archipelago (1:20,000,000); the same, visibility of the land.

XI. The Pacific Ocean, do. (1:50,000,000). Insets: Kermadec and Tonga Troughs; sections. (*Pet. Mitt.* 1905, No. 3.)

MEYER'S HAND-ATLAS. Hildburghausen 1863-6.

Afrika, 3 Blatt.

Britisch Nord-Amerika (1:16,000,000).

Vereinigte Staaten, 2 Blatt (1:8,000,000);

Mexiko (1:8,000,000); Central Amerika und die Antillen (1:8,000,000).

Süd-Amerika.

MAPS PUBLISHED INDEPENDENTLY.

ENGLAND AND WALES.

*PHILIP'S TOPOGRAPHICAL MAP OF ENGLAND AND WALES, produced under the supervision of E. G. Ravenstein, scale 1:200,000.

In 1888 I proposed to Messrs. Philip & Son the production of this map, in accordance with the recommendations of a Committee of the British Association, of which I was Secretary (see p. 26). They entertained my proposal, but (on financial grounds) proposed that physical and political features should be combined on the same maps.

Four contiguous sheets of the map were shown at the Exhibition held in connection with the Geographical Congress in 1895. Each sheet is bounded by meridians and parallels, and embraces $1^{\circ} 20'$ of longitude and $40'$ of latitude. The Ordnance and Admiralty Surveys have been combined, and the roads revised by county surveyors. The nomenclature is from Census of 1891. Heights and depths are shown by contours of 50, 100, 200, 300, 400, 500, and 600 feet (100 fathoms), and beyond this at intervals of 300 feet, and by tints. This map, however, has never been published as originally intended, but it has been utilised for "Philip's Three-Mile Cycling Map of England and Wales," on 36 sheets.

*A WALL-MAP OF GLAMORGANSHIRE,
scale 1 : 50,000. London (Philip), 1892.

This is a school-room map.

HIRSCHHORN'S BUSINESS MAP OF
LONDON AND SUBURBS, together
with a valuable Directory. London (Letts,
Son & Co.), 1880.

1. Map of London, 1 m. = $2\frac{3}{4}$ in., compiled by E. G. Ravenstein. A map in 16 sections, each measuring $7\frac{1}{2} \times 6\frac{1}{4}$ in., distinguishing streets with and without shops, omnibus and tramway routes, railways, &c.

2. Directory to Retail Warehouses and Shops, Hotels, &c., pp. 75.

3. Index to Streets, pp. 30.

4. Directory to Public Institutions, pp. 2.

COLLINS' ENVIRONS OF SEBASTOPOL
... and Plan of the battlefield of the Alma.
London (Collins), 1854.

COLLINS' RELIEF MAP OF EUROPE,
24 × 36 in.

The business went into liquidation, and the Relief was never published.

THE OARSMAN'S AND ANGLER'S MAP
OF THE RIVER THAMES, compiled
and drawn by E. G. Ravenstein. London
(Reynolds), 1860.

The Thames from London Bridge to Thames Head is shown on a strip of paper, 6 in. wide and 6 ft. long.

AFRICA.

ABYSSINIA, 1867. By E. G. Ravenstein.
London (Topogr. Dept. War Office), 1867.

A map in 5 sheets, extending from Massowa to beyond Magdala. Scale 1 : 158,000.

*MAP OF PART OF CENTRAL ABYSSINIA, based upon the surveys and explorations of Col. T. Beke, J. G. Bell, Blondeel van Cuclebroek, J. Bruce, and E. Steudner. Compiled by E. G. Ravenstein. London (Topogr. Dept. War Office), 1867.

The map extends from 9° 20' to 11° 45' N., and from 36° to 40° 30' E. Scale 1 : 634,000.

MAP OF ABYSSINIA, ILLUSTRATING
THE OFFICIAL RECORD OF THE
ABYSSINIAN EXPEDITION, 1867-8.
Compiled by E. G. Ravenstein. London
(Topogr. Dept. War Office), 1868.

Scale 1 : 1,584,000.

- *SKETCH MAP OF THE CUNENE BASIN
AND OF THE UPPER OKAVANGO.
Compiled for the Earl of Mayo. Scale
1 : 1,500,000. January, 1882.
(*Pet. Mitt.* 1882, 68.)

A MAP OF THE SOUTH AFRICAN RE-
PUBLICS. Scale 1 : 2,000,000 (*Geogr.*
Mag. iv. 1872, p. 27).

- *A MAP OF EASTERN EQUATORIAL
AFRICA BETWEEN LAT. 10° N. AND
EAST OF LONG. 25°. Compiled by E.
G. Ravenstein, and published under the
authority of the Royal Geographical Society.
London, 1881-3.

25 sheets. Scale 1 : 1,000,000. See *Proc. R.*
Geogr. Soc. iv. 1882, p. 623.

(*Pet. Mitt.* 1880, p. 473 ; 1881, pp. 191, 309 ;
1882, pp. 68, 351 ; 1884, p. 72 ; 1887, p. 393.)

- *A MAP OF THE COUNTRY BETWEEN
LAKES NYASA AND TANGANYIKA.
Largely based upon unpublished materi-
als furnished by James Stevenson. Scale
1 : 750,000. London (Philip & Son), 1888.

With notes on the authorities. (See *Proc. R.*
Geogr. Soc. x. 1888, p. 747.) The map is likewise
published in the *Scottish Geogr. Magazine*.

(*Pet. Mitt.* 1888, p. 372.)

- *A MAP OF IBEA, OR BRITISH EAST
AFRICA. Prepared by authority of the
British East Africa Company. Nine sheets.
Scale 1 : 500,000. London (Philip), 1889.

(*Pet. Mitt.* 1889, No. 232.)

- *MAP OF MASHONALAND AND MAN-
IKE, INCLUDING THE LOWLANDS

TO THE ZAMBEZI AND BEIRA, based upon surveys made by F. C. Selous and all other available authorities (1 : 1,000,000) (*Geogr. Journal*, v. 1895).

For notes on the materials used, *ib.* pp. 44-9.

*ALANGUAGE MAP OF AFRICA. Specially prepared by E. G. Ravenstein from original sources to accompany *Modern Languages of Africa*, by Robert Needham Cust, 1883. Scale 1 : 8,000,000. London (Trübner).

A MISSION MAP OF EQUATORIAL AFRICA, showing especially the Stations of the Baptist Missionary Society. Scale 1 : 8,000,000. London (Philip & Son).

ASIA.

*PHILIP'S MAP AND GAZETTEER OF INDIA. London, 1900.

(1) A map of the Indian Empire, including Ceylon and the Straits Settlements; scale 1 : 5,000,000.

(2) Gazetteer of India, 7 × 8.5 in., pp. 142. The Gazetteer is preceded by a general account of India, its physical features, climate, area and population, races and languages, religion, education, agriculture, mines, commerce, internal communications, shipping, government, &c.

Insets:—India: Military Stations and Railways, 1 : 15,000,000 ; India: Languages, 1 : 30,000,000 ; India: Religions, 1 : 30,000,000 ; Somaliland and Aden, 1 : 10,000,000 ; Overland Routes to India, 1 : 150,000,000 ; Environs of Calcutta and Bombay ; Plans of Calcutta, Bombay, Madras, Rangoon, and Singapore.

(*Ath.* Dec. 1, 1900 ; Jan. 12, 1901.)

THE SCRIPTURE READER'S MAP OF PALESTINE AND THE LANDS OF THE BIBLE, illustrating the Old and New Testaments. Compiled and drawn by E. G. Ravenstein. (Engraved by J. Bartholomew.) Scale 1 : 500,000. 1877.

Insets to illustrate the Exodus and the Acts.

*MAP OF SOUTH-WESTERN ARABIA. Compiled by E. G. Ravenstein. London (Topogr. Dept. War Office), 1872. Scale 1 : 633,000.

*SKELETON MAP OF THE COUNTRIES BETWEEN KASHMIR AND PANJ-KORAH, including Chilas, Kandia, and other districts of Dardistan. Compiled from the maps and researches of Lieut. D. G. Robinson, Capt. H. Raverty, H. W. Bellew, Col. H. C. Johnstone, Col. J. W. Hayward, Col. W. L. Thuillier, Col. J. T. Walker, Major T. G. Montgomerie; itineraries collected by Dr. G. W. Leitner, and other sources, by E. G. Ravenstein. Scale 1 : 500,000 (*Geogr. Mag.* vi. 1875, p. 232).

AMERICA.

RAILROAD MAP OF THE UNITED STATES OF AMERICA, THE DOMINION OF CANADA, AND MEXICO; 1 : 5,000,000. Frankfurt (Jäger), 18—.

Fourth edition, 1882.

EISENBAHN- UND SCHIFFFAHRTS-KARTE DER KAISERREICHE VON RUSSLAND UND DER TUERKEI,

bearbeitet von E. G. Ravenstein;
1 : 5,000,000. Frankfurt (Jäger), 1884.

*MAP OF CENTRAL AMERICA, to illustrate the Territorial and Boundary Questions. Compiled in the Topogr. and Stat. Dept. War Office, 1858. Scale 1 : 2,191,000.

*MAP OF SOUTH AMERICA AND THE WEST INDIES, to illustrate the Territorial and Boundary Questions.

Compiled in the Topogr. and Stat. Dept. of the War Office, 1858. Scale 1 : 10,957,000.

SPECIAL MAP OF BRITISH GUIANA, illustrating the Venezuela-Guiana Boundary Dispute, 1895-6; 1 : 2,180,000. London (Philip & Son), 1896.

SPECIAL MAPS.

ETHNOGRAPHICAL MAP OF THE WORLD SHOWING THE DISTRIBUTION OF THE VARIETIES OF MAN : with diagrams showing the occupations of all nations and the distribution of man according to religious belief. London (Reynolds), 18—. Scale 1 : 50,000,000.

REYNOLDS' SERIES OF PHYSICAL WALL MAPS, Mercator's Projection;
1 : 11,000,000. London (Reynolds), 1859.

Volcanoes, Earthquakes, and Coral Reefs.
Zoological map showing the distribution of the more important animals.

The geographical distribution of the winds.
The geographical distribution of plants.

MAP ILLUSTRATIONS OF BOOKS AND ACCOUNTS OF TRAVELS.

ANDERSSON, CH. L., "Lake Ngami." London, 1856.

Map of Damara and Great Namaqualand and the adjoining countries to and beyond Lake Ngami as explored and surveyed by Messrs. Galton and Andersson. Scale 1 : 3,785,000.

COWPER, H. S., "The Hill of the Graces." London (Methuen), 1897.

A map of parts of Gharian, Tarhuna, and Msalata (Tripoli), by H. S. Cowper. Scale 1 : 200,000. Reprinted from *Geogr. Journal*, vii. 1896.

CAMERON, LIEUT. V. LOVETT.

Maps illustrating the progress of his expedition across Africa published in the *Geogr. Magazine*, i. 1874, ii. 1875, and iii. 1876, including a map of the Southern Tanganyika, 1 : 100,000; Cameron's route from the coast to the lake, 1 : 2,500,000, and from the lake to the west coast; and a map of Tropical South Africa illustrating the Progress of Geographical Discovery.

CONDER, MAJOR C. R., "Palestine." London (Philip), 1889.

General map of Palestine, 1 : 1,500,000; six small maps illustrating geology, orography, and history.

DARWIN, MAJOR LEONARD.

Map of Africa illustrating an address by —, President of Section E of the Brit. Ass., 1896, 1 : 46,000,000 (*Geogr. Journal*, viii. 1896, p. 520). The map illustrates chiefly the density of the population.

DECLÉ, L.

Three maps illustrating his explorations,
1 : 5,000,000 and 10,000,000.

DUNDAS, CAPT. E. G., R.N.

*A map illustrating an expedition up the River Tana and to Mount Kenia, commanded by Capt. E. G. Dundas, R.N., and mainly based upon surveys by C. W. Hobley and the explorations of other officials of the Imperial British East Africa Company. Scale 1 : 1,000,000 (*Proc. R. Geogr. Soc.* xiv. 1892, p. 530; *Geogr. Journal*, i. 1893, pp. 222-3).

The paper illustrated by this map was read by Mr. E. Gedge. In my remarks, pp. 530-3, I summarise the history of the discovery and exploration of the Tana and Mount Kenia.

ELLIOT, G. F. SCOTT, "Expedition to Ruwenzori and Tanganyika" (*Geogr. Journal*, vi. 1895, pp. 301-24).

*Map of part of East Africa to illustrate a paper by —, 1 : 2,000,000; map of Ruwenzori, 1 : 500,000, with notes on maps (p. 323).

FARLER, VEN. J. P., "Native Routes in East Africa" (*Proc. R. Geogr. Soc.* iv. 1882, pp. 730-42).

Native routes to the Masai Country and to the Victoria Nyanza, from information obtained by —, 1 : 2,000,000.

GALTON, FRANCIS, "Vacation Tourists and Notes of Travel." London, 1861.

Four maps illustrating the geogr. distribution of the Slavonian race; travels in Peru, the Geyser district, and the Graian Alps.

GEIGER, J. L., "A Peep at Mexico." London (Trübner), 1876.

An hypsographical sketch-map of Mexico, 1 : 13,000,000 ; maps (in three sheets) illustrating the routes of — from Vera Cruz to the Pacific, 1 : 1,000,000.

GIBBONS, MAJOR A. ST. HILL, "A Journey into the Marotse and Mashikulumbwe Countries" (*Geogr. Journal*, ix. 1897, pp. 121-49)

Map of part of the kingdom of the Marutse, from surveys and explorations by Capt. Alfred St. Hill Gibbons, Mr. Percy C. Reid, and Capt. Bertrand, 1895-6 ; scale 1 : 1,000,000.

GIBBONS, MAJOR A. ST. HILL, "Explorations in Marotse Land," &c. (*Geogr. Journal*, xvii. 1901, pp. 106-34).

*A map of Marotseland and the neighbouring regions, principally from surveys and explorations by Major A. St. Hill Gibbons, 1895-6, 1898-1900, assisted in the latter expedition by Capt. F. C. Quicke and Capt. J. Stevenson-Hamilton ; scale 1 : 2,000,000.

Manuscript map of the region between Lat. 10° and 20° S., Long. 18° and 32° E., embodying the work done by Major Gibbons, 1 : 500,000.

GUILLEMARD, F. H. H., "The Life of Ferdinand Magellan." London (Philip), 1890.

Nine maps illustrating the famous voyage.

HOBLEY, C. W., "Upon a Visit to Tsavo and the Taita Highlands" (*Geogr. Journal*, v. 1895, pp. 545-61).

Sketch of the Taita Mountains, 1 : 500,000 ; Kisigau and Kilibasi, 1 : 500,000 ; the country between Mombasa and Vanga, 1 : 500,000.

HOBLEY, C. W., "Notes on a Journey round Mount Masawa, or Elgon" (*Geogr. Journal*, ix. 1897, pp. 178-85).

A map of Mount Masawa (Mount Elgon) by C. W. Hobley, scale 1 : 500,000.

HOBLEY, C. W., "Kavirondo" (*Geogr. Journal*, xii. 1898, pp. 361-72).

*A map of Kavirondo, principally from compass surveys by C. W. Hobley, by E. G. Ravenstein. Scale 1 : 500,000.

HOWORTH, SIR H. H., "History of the Mongols," i. London, 1876.

A map of Mongolia, 1 : 7,500,000.

JOHNSON, REV. W. P., "Journeys in the Yao Country" (*Proc. R. Geogr. Soc.* 1882, pp. 480-4).

Route through the Yao Country by —, 1880-2, 1 : 2,000,000.

JOHNSTON, SIR H. H., "Livingstone and the Exploration of Central Africa." London (Philip), 1891.

General map, 1 : 25,000,000 ; Nyasa and Shire Highlands, 1 : 4,000,000 ; Lake Bangweolo, 1 : 3,000,000.

LEITNER, G. W., "The Languages and Races of Dardistan," by —, with maps by E. G. Ravenstein. London (Trübner), 1876.

* (1) Sketch-map of Dardistan and neighbouring countries, 1 : 1,000,000. (2) Skeleton map of the countries between Kashmir and Panjkorah, including Chilas, Kandia, and other districts of Dardistan, June 1875, 1 : 500,000. (3) A native map of the country between Peshawar and the Oxus, translated by Dr. G. W. Leitner, 1 : 500,000.

LEO AFRICANUS, "The History and Description of Africa," by ——. Edited by Dr. Robert Brown. London (Hakluyt Society), 1896.

*Two maps (Northern Africa, 1 : 23,000,000, and Barbary, 1 : 6,000 000) illustrating the work, with a Geographical Index identifying tribal and other names (iii. pp. 1073-1105).

(*Ath. Mar.* 12, 1898.)

LEWIS, REV. THOMAS, "The Ancient Kingdom of Congo" (*Geogr. Journal*, xix. 1902, pp. 541-89).

A map of journeys into Zombo Land, by Rev. Thomas Lewis ; scale 1 : 300,000.

LUGARD, CAPT. F. D., "The Rise of our East African Empire," by ——. London, 1893.

*Maps compiled by E. G. Ravenstein : (1) A map of part of East Africa, 1 : 5,000,000. (2) A map of part of Eastern Africa, showing the routes of Captain F. D. Lugard, 1891-2, 1 : 2,500,000 ; (3) The political divisions of Africa (European treaties), 1 : 40,000,000 ; (4) A map of Uganda and neighbouring countries, 1 : 1,000,000 ; (5) Six small maps of British East Africa and Uganda, illustrating geology, mean temperature, rainfall, forests, tribes, and commerce.

(*Pet. Mitt.* 1894, p. 48.)

LUGARD, CAPT. F. D., "Uganda" (*Proc. R. Geogr. Soc.* xiv. 1892, pp. 817-41).

Map of parts of Uganda and neighbouring countries to illustrate the explorations of Capt. F. D. Lugard, 1 : 1,000,000. For notes on materials utilised, *see ib.* pp. 817-41.

LUPTON, F., "The Province of Bahr el Ghazal," principally from a sketch by F. Lupton; 1 : 6,000,000 (*Proc. R. Geogr. Soc.* vi. 1884, p. 245).

MARKHAM, CAPT. A. H., "The Life of Sir John Franklin." London (Philip), 1891.

Arctic regions, scale 1 : 60,000,000; Spitzbergen, 1 : 8,000,000; Arctic America, exhibiting progress of discovery, 1 : 20,000,000; Franklin's track and line of retreat, 1 : 3,000,000.

MARKHAM, SIR CLEMENTS R., "The Threshold of the Unknown Regions." London, 1873.

Circumpolar maps and maps of the European, the Siberian, and the American Polar Seas, and of Spitzbergen.

—— — "Account of the Arctic Expedition of 1875-6" (*Proc. R. Geogr. Soc.* xxi. 1877, p. 536).

A map of the Arctic regions, showing forty-nine winter quarters.

—— — "Life of Columbus." London, 1892.

Seventeen maps illustrating the work.

—— — "A Life of John Davis." London, 1889.

Four maps illustrating the work.

—— — "The Perivar Project of Irrigation" (*Geogr. Mag.* i. 1874, pp. 329-32).

Hypsographical sketch-map of South India, 1 : 3,000,000; the Upper Perivar, 1 : 250,000.

O'NEILL, H. E., H.M. Consul at Mozambique,
"Journey from Mozambique to Lake Shirwa
and Amaramba" (*Proc. R. Geogr. Soc.* vi.
1884, pp. 713-41).

Preliminary map of a journey to Lake Kilwa,
1883-4, 1 : 1,000,000.

PETRIE, CAPTAIN MARTIN, "The Military
Forces of the Nations of Europe." London,
1861.

Map of Central Europe and the Russian
Empire, showing fortresses and localisation of
military forces.

"PUNDIT," "Journey into Tibet" (*Geogr.*
Mag. iii. 1876, p. 145).

Map of a portion of Tibet and adjoining
countries illustrating the Pundit's journey in 1874 ;
scale 1 : 2,500,000.

PIERER'S CONVERSATIONS-LEXIKON,
6te Auflage. Oberhausen und Leipzig
(Spaarman), 1874.

It contains the following maps by E. G. Ra-
venstein: Bevölkerungskarte von Deutschland,
1 : 6,000,000 ; Städte-Bevölkerung des deutschen
Reiches, 1 : 6,000,000.

Asien, 1 : 40,000,000 ; Russisch - asiatische
Grenzländer, 1 : 17,500,000.

Nordwest Afrika, 1 : 24,000,000 ; Nordost
Afrika u. Arabien, 1 : 17,500,000.

Bevölkerungskarte der Erde.

Hauptbeschäftigungen der Bewohnen der Erde.
Gang der Cholera, 1800-57, &c.

SEEBOHM, H., "Address to the Geographical Section of the British Association," Nottingham, 1893.

Six Polar charts : (1) River basins ; (2) Heights and depths ; (3) Temperature, coldest month ; (4) Temperature, warmest month ; (5) Rain and snow ; (6) Vegetation.

SMITH, DR. A. DONALDSON, "Expedition through Somaliland to Lake Rudolf" (*Geogr. Journal*, viii. 1896, pp. 120-37, 221-39).

*Map of the expedition, in five sheets, 1 : 1,000,000.

STEVENSON, JAMES, "The Water Highways of the Interior of Africa," with notes on slave hunting and the means of its suppression, by —. Glasgow (Maclehose), 1883.

Two maps : (1) Equatorial Africa, tinted according to heights, 1 : 23,000,000 ; (2) Slave-trade map of the same, same scale.

THOMSON, JOSEPH, "Travels in the Atlas and Southern Morocco." London, 1889.

THOMSON, JOSEPH, "Mungo Park and the Niger." London, 1890.

Two maps illustrating the work.

VAMBERY, H., "The Russian Campaign in Khokand" (*Geogr. Mag.* iii. 1876, p. 85).

Map of Khokand (Ferghana), 1 : 1,500,000.

WHITE, A. SILVA, "The Development of Africa." Illustrated with a set of 14 maps specially designed by E. G. Ravenstein. London (Philip & Son), 1890.

The 14 maps of Africa (1 : 62,000,000) illustrate height of the land ; river basins and ocean currents ; actual mean temp. of the year ; annual range of temp. ; rainfall ; geology ; zones of vegetation ; commerce ; density of population ; language ; religions ; progress of explorations ; the partition of Africa.

Notes on the maps by E. G. Ravenstein, pp. 323-30.

WIGGINS, CAPT. JOS., "Communication with Siberia by Sea" (*Geogr. Mag.* iii. 1876, pp. 55-9).

A map of the Kara Sea showing Capt. Wiggins's tracks in 1874 and 1875, 1 : 3,000,000.

YULE, COLONEL H., "Trade Routes to India" (*Geogr. Mag.* ii. 1876, p. 97.)

Map of Further India and South-eastern China, 1 : 5,000,000 (coloured hypsographically).



